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W. H. D.

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Patent

Attorney Docket No. MTI-31608

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE Arlington, VA 22313-1450  <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b>	ATTY. DOCKET NO.	Serial No.
	MTI-31608	10/068,159
	Applicant	Confirmation No.
	Tan, Hock Chuan et al.	8043
	Filing Date	Group Art Unit
	February 5, 2002	2818

## U.S. PATENT DOCUMENTS

Examiner Initial		Patent Number	Issue Date	Patentee	U.S. Class	Sub-Class
TL	A1	6,818,998 B2	11-16-04	Kwon et al.	257	777
TL	A2	6,777,797 B2	08-17-04	Egawa	257	686
TL	A3	6,531,784 B1	03-11-03	Shim et al.	257	777
TL	A4	6,730,543 B2	05-04-04	Akram	438	109
TL	A5	6,351,028 B1	02-26-02	Akram	257	686

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initial		Document Number	Publication Date	Country	Classification	Translation (Yes/No)
TL	B1	6244360	09-02-1994	JP	H01L 25/065	Abstract only
TL	B2	2000049279	02-18-2000	JP	H01L 25/065	Abstract only
TL	B3	2000058742	02-25-2000	JP	H01L 25/065	Abstract only

Examiner Initials	<i>Thao</i>	Date Considered	04/26/05
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April 14, 2005

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number		10068159
Filing Date		2002-02-05
First Named Inventor	Hock Chuan Tan	
Art Unit	2818	
Examiner Name	Thao P. Le	
Attorney Docket Number	MTI-31608	

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TL	1	6833287		2004-12-21	Hur et al.	
TL	2	6984544		2006-01-10	Cloud et al.	
TL	3	6906408		2005-06-14	Cloud et al.	
	4	6784023		2004-08-31	Ball	
	5	6731009		2004-05-04	Jones et al.	
	6	6476475		2002-11-05	Lee	
	7	6939746		2005-09-06	Bolken	
	8	6919631		2005-07-19	Hoffman et al.	

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TL	9	6512302		2003-01-28	Mess et al.	
TL	10	6380631		2002-04-30	Mess et al.	
TL	11	6861760		2005-03-01	Oka et al.	

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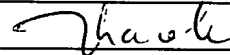
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TL	1	6483187	B1	2002-11-19	Chao et al.			
TL	2	6525413	B1	2003-02-25	Cloud et al.			
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TL	1	20030111720	A1	2003-06-19	Tan et al.	

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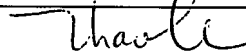
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TL	1	5760478		1998-06-02	Bozso et al.		

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